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NO. PAGES 35

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Joint Mission Coverage Index

MISSION B 4155
9 APRIL 1960



ARMY



NAVY



CIA

PIC/JMCI-1/60
JUNE 1960

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PIC/JMCI-1/60

PREFACE

This is the first of a new series of reports, the Joint Mission Coverage Index (JMCI). It is intended to serve as an index of intelligence items covered on a particular mission and contains pertinent photographic information related to such items.

The JMCI chart-form listings of intelligence items are accompanied by the appropriate WACs. The arrangement of items is generally by flight line, beginning with the lowest numbered photographs of intelligence interest and proceeding along the flight path to the highest numbered.

A subject index, containing items arranged alphabetically by category, appears in a separate listing.

The chart-form listing contains the following entries (Paragraphs are numbered to correspond with column headings on the chart forms):

1. PIC Target Number: PIC target numbers are comprised of two elements: (1) the WAC number for the area in which the target lies, and (2) a numerical designation (occasionally followed by a capital letter) for the specific target within that WAC area, i.e., 246-006 designates target number 6 in WAC 246.

In addition to being listed in the text, targets are plotted on the pertinent WACs in this report.

2. Name of Installation: The name will be given, if known. If not, the installation will be titled according to an associated geographic name or according to obvious use, such as storage area, instrumentation station, etc.

3. Description and BE Number: Descriptions of installations listed will be brief and consist basically of changes since previous coverage. BE numbers will be given when they exist.

4. Exposure Numbers and Grid Reference: If more than two exposures cover the installation, only two exposures will be listed, usually those providing the best stereo coverage. Following exposure numbers will be the grid reference, a letter and number combination, within parentheses, designating the position of the item on the first frame listed. Extensive installations, such as a test range or large urban area, do not carry a grid reference. An example of target location by Universal Reference Grid is shown in the Appendix.

5. Camera Position: Mission B 4155 was flown with the B configuration. The position of Camera 9 on the two exposures listed under 4, above, will be noted. (V - vertical; 1L - first oblique, left side; 2L - second oblique, left side; 3L - third oblique, left side; 1R, 2R, 3R - first, second, third oblique, right side.)

6. Total Exposures: This figure will indicate the total number of exposures that cover the installation even though only two exposures are listed in the preceding column.

7. Cloud Information: This letter designation indicates cloud conditions as they exist over the listed installation. The letter designations are as follows:

C	Clear
SC	Scattered Clouds
HC	Heavy Clouds
O	Overcast
H	Haze (includes smoke, blowing snow and dust)
CS	Cloud Shadow (cloud shadows cast on ground reducing interpretability)

8. Subject Code: Thirteen categories are used; they are as follows:

1	Airfields
2	Atomic Energy
3	Electronics and Telecommunications
4	Industry
5	Liquid Fuels
6	Military Installations
7	Missiles
8	Naval Installations
9	Ports and Harbors
10	Storage Facilities, General
11	Transportation
12	Urban Areas
13	Miscellaneous

9. Coordinates: Coordinates are given to the nearest minute for the approximate center of the installation.

10. Country: The country is designated by the two letter code used in the Bombing Encyclopedia.

SUMMARY OF COVERAGE OF MISSION

Mission B 4155, flown 9 April 1960, covered an area within the Soviet Union extending from the Fergana Valley north to Lake Balkhash, northeast to Semipalatinsk, south and west to include the area between Lake Balkhash and Dzhezkazgan and thence south to Tyura Tam and Mary. The suitability for photographic interpretation ranges from poor to good, due chiefly to atmospheric conditions. Over-all cloud cover was approximately 40% with the heaviest concentration over Andizhan and Tyura Tam. Major items of intelligence interest covered include a new launch area under construction at Tyura Tam, considerable missile-associated activity in the Sary Shagan - Dzhezkazgan area, and seven major airfields. Details of these and other installations have been described in ODE 4155, PAR-582-60, 16 April 1960 (TS) and these details have not been repeated in this JMCI.

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1. PIC TARGET NO.	2. NAME OF INSTALLATION 3. DESCRIPTION & BE NUMBER 4. EXPOSURE NOS. & GRID REFERENCE	5. CAMERA POSITION	6. TOTAL EXP.	7. CLOUD COVER	8. SUBJECT CODE	9. COORDINATES	10. COUNTRY
328-038 25X1 25X1	STALINO URBAN AREA [REDACTED] [REDACTED]					4043N 07203E	25X1
328-038-A 25X1	STALINO STORAGE, 6 RAIL SERVED BLDGS. [REDACTED]					4042N 07204E	UR
328-038-B 25X1	STALINO U/I INDUSTRY, 20 BLDGS [REDACTED]					4042N 07204E	UR
328-002 25X1	ANDIZHAN A/F [REDACTED]					4044N 07218E	UR
328-036 25X1 25X1	PAYTOK URBAN AREA [REDACTED] [REDACTED]					4053N 07215E	UR
328-039 25X1	NARYN URBAN AREA, U/I INDUSTRY WITH 10 BLDGS AND 4 WAREHOUSES [REDACTED]					4055N 07207E	UR
328-037 25X1 25X1	UCH-KURGAN URBAN AREA [REDACTED] [REDACTED]					4107N 07205E	UR
328-037-A 25X1	UCH-KURGAN U/I INDUSTRY, 20 BLDGS, 4 SMOKE STACKS, CONVEYOR [REDACTED]					4102N 07221E	UR
328-037-B 25X1	UCH-KURGAN U/I INDUSTRY, 12 BLDGS, 2 STACKS, 6 LIQUID STORAGE TANKS, RAIL SERVED [REDACTED]					4106N 07206E	UR
328-037-C 25X1	ROAD BRIDGE 600 FT. BRIDGE OVER NARYN R. [REDACTED]					4107N 07206E	UR
328-037-D 25X1	RAILROAD BRIDGE 600 FT. BRIDGE OVER NARYN R. [REDACTED]					4106N 07206E	UR
328-037-E 25X1	UCH-KURGAN HYDROELECTRIC PLT U/C 5 NM NE UCH-KURGAN [REDACTED]					4111N 07210E	UR
328-036-A 25X1	MAYLI-SAY POL STORAGE, 7 STORAGE TANKS, 2 OPEN STORAGE BASINS, 2.5 NM S. MAYLI-SAY [REDACTED]					4113N 07224E	UR
328-040 25X1	RAILROAD BRIDGE 480 FT. BRIDGE OVER NARYN R, 5 NM SSE TASHKUMYR [REDACTED]					4118N 07211E	UR

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1. PIC TARGET NO.	2. NAME OF INSTALLATION 3. DESCRIPTION & BE NUMBER 4. EXPOSURE NOS. & GRID REFERENCE	5. CAMERA POSITION	6. TOTAL EXP.	7. CLOUD COVER	8. SUBJECT CODE	9. COORDINATES	10. COUNTRY
245-018 25X1	MYN ARAL URBAN AREA [REDACTED]					4525N 07338E	25X1
245-002-1 25X1	SARY SHAGAN MISSILE/ELECTRONICS AREA 1. BASE SUPPORT AREA CONSISTING OF HOUSING, STORAGE & MAINTENANCE, FABRICATION & WAREHOUSE AREAS, EXPLOSIVE STORAGE, AND 4 COMMO FACILITIES [REDACTED]					4601N 07330E	UR
245-002-2 25X1	SARY SHAGAN MISSILE/ELECTRONICS AREA 2. RANGE AREA CONSISTING OF POSS. SAM SITE AND LAUNCH FACILITIES, SUPPORT FACILITIES AND 7 INSTRUMENTATION AND COMMO STA. [REDACTED]					4540N 07225E	UR
245-002-A 25X1	SARY SHAGAN A/F 9 BADGER, 14 BEAGLE, 3 FLASHLIGHT, 14 FAGOT/FRESCO 1 CAMP, 4 CRATE, 5 CAB, 9 COLT, 5 HOUND 9 U/I LIAISON. NEW A/F U/C 9,800 X 185 FT. CONCRETE RUNWAY [REDACTED]					4601N 07335E	UR
245-019 25X1	LANDING GROUND DIRT STRIP 16,300 X 260 FT [REDACTED]					4556N 07335E	UR
245-020 25X1	GUL-SHAD ORE CONCENTRATION PLANT AND MINING [REDACTED]					4638N 07421E	UR
245-004-B 25X1	BALKHASH COPPER SMELTER, NO CHANGE [REDACTED]					4650N 07457E	UR
245-021 25X1	MOINTY URBAN AREA [REDACTED]					4713N 07322E	UR
245-021-A 25X1	MOINTY INSTRUMENTATION STA 45 NM SW MOINTY, 1 TALL LATTICE TOWER & 150 SUPPORT BLDGS [REDACTED]					4650N 07225E	UR
245-002-B 25X1	SARY SHAGAN INSTRUMENTATION STA. 42 NM WNW SARY SHAGAN 1 TALL LATTICE TOWER & SECURED AREA [REDACTED]					4622N 07250E	UR
245-024 25X1	KIZYL-ESPE MINING ACTIVITY, POWER SUB- STATION, COMMO STA, SECURE STORAGE AREA 24NM NE KIZYL- ESPE [REDACTED]					4743N 07416E	UR

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1. PIC TARGET NO.	2. NAME OF INSTALLATION 3. DESCRIPTION & BE NUMBER 4. EXPOSURE NOS. & GRID REFERENCE	5. CAMERA POSITION	6. TOTAL EXP.	7. CLOUD COVER	8. SUBJECT CODE	9. COORDINATES	10. COUNTRY
245-025	KIIK RAILROAD BRIDGE 6NM N KIIK. 145 FT BRIDGE OVER MOINTY RIVER					4737N 07255E	25X1
25X1							
245-002-C	SARY SHAGAN 3 ELECTRONIC DEVICES AND HOUSING AND SUPPORT AREA 160 NM WNW SARY SHAGAN					4655N 07010E	UR
25X1							
245-002-D	SARY SHAGAN INTERFEROMETER TYPE INSTRUMENTATION STA. 165 NM WNW OF SARY SHAGAN					4712N 07010E	UR
25X1							
245-002-E	SARY SHAGAN SOD LANDING STRIP 165 NM WNW OF SARY SHAGAN					4712N 07010E	UR
25X1							
245-001	DZHEZKAZGAN URBAN AREA					4753N 06727E	UR
25X1							
25X1							
245-015	DZHEZKAZGAN INSTRUMENTATION STA, 2 TOKEN- TYPE RADAR, 2 INSTRUMENT BLDGS, SECURE SUPPORT AREA WITH 20 BLDGS	4748N 06729E	UR				
25X1							
245-023	BOLSHOY DZHEZKAZGAN URBAN AREA	4747N 06746E	UR				
25X1							
25X1							
245-001-A	DZHEZKAZGAN A/F 1 CAB, 1 U/I LIAISON	4742N 06744E	UR				
25X1							



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1. PIC TARGET NO.	2. NAME OF INSTALLATION 3. DESCRIPTION & BE NUMBER 4. EXPOSURE NOS. & GRID REFERENCE	5. CAMERA POSITION	6. TOTAL EXP.	7. CLOUD COVER	8. SUBJECT CODE	9. COORDINATES	10. COUNTRY
244-004 25X1 25X1	BALKHASH URBAN AREA [REDACTED] [REDACTED]					4650N 07457E	UR
244-004-C 25X1	BALKHASH NEW ORE PROC. FACILITY NEAR COPPER SMELTER [REDACTED]					4650N 07457E	UR
244-004-A 25X1	BALKHASH A/F [REDACTED]					4654N 07501E	UR
244-006 25X1 25X1	KOUNRADSKIY URBAN AREA [REDACTED] [REDACTED]					4658N 07500E	UR
244-006-A 25X1	KOUNRADSKIY MINING AREA [REDACTED]					4658N 07500E	UR
244-006-B 25X1	KOUNRADSKIY EXPLOSIVE STORAGE [REDACTED]					4658N 07503E	UR
244-006-C 25X1	KOUNRADSKIY MINING AREA 5NM NE KOUNRADSKIY, 5 SHAFT MINES, 1 EXPLOSIVES STORAGE AREA [REDACTED]					4701N 07508E	UR

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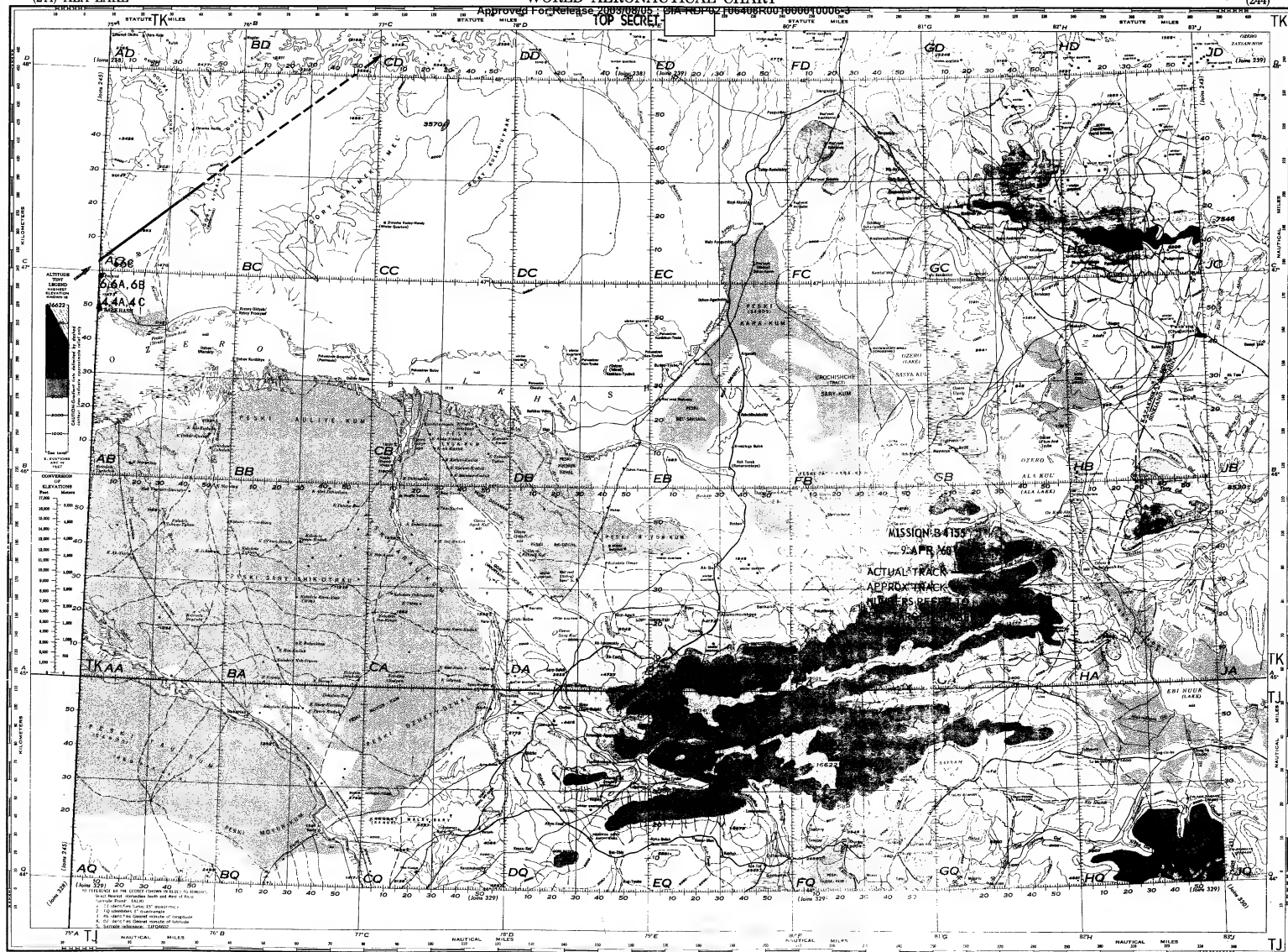
(244) ALA LAKE

WORLD AERONAUTICAL CHART

FIC/JMC1-1/60(244)

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(244) CIA/PIC G-3178

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ALA LAKE (244)
CHINA-USSR

25X1

25X1

1. PIC TARGET NO.	2. NAME OF INSTALLATION 3. DESCRIPTION & BE NUMBER 4. EXPOSURE NOS. & GRID REFERENCE	5. CAMERA POSITION	6. TOTAL EXP.	7. CLOUD COVER	8. SUBJECT CODE	9. COORDINATES	10. COUNTRY
239-016 25X1	CHARSKIY URBAN AREA [REDACTED]					4934N 08105E	25X1
239-018 25X1	KEZEK-SU OPEN PIT MINES, RAIL SERVED [REDACTED]					4939N 08050E	UR
239-006-C 25X1	SEMIPALATINSK SURFACE MINE, RAIL SERVED 10 NM E OF SEMIPALATINSK [REDACTED]					5022N 08029E	UR
239-006 25X1	SEMIPALATINSK URBAN AREA [REDACTED]					5025N 08016E	UR
239-006-A 25X1	SEMIPALATINSK CEMENT PLANT COMPLETED SINCE [REDACTED]					5024N 08012E	UR
239-006-B 25X1	SEMIPALATINSK COMMUNICATION STA. 14 STICK MASTS [REDACTED]					5027N 08014E	UR
239-008 25X1	SEMIPALATINSK A/F FENCE AT LOAD PITS & HANGAR REMOVED. 1 BULL, 2 CRATE, 3 CAB, 6 COLT, 7 CREEK, 1 HOUND [REDACTED]					5021N 08014E	UR
239-003-A 25X1	DOLON A/F U/I SECURE AREA U/I STORAGE AND WEAPONS LOADING AREA U/C [REDACTED]					5033N 07915E	UR
239-003 25X1 25X1	DOLON A/F 14 BEAR, 8 BADGER, 2 BULL, 1 CAB [REDACTED] [REDACTED]					5033N 07915E	UR
239-017 25X1	CHAGAN URBAN AREA [REDACTED] [REDACTED]					5037N 07915E	UR
239-019 25X1	CHEREMUSHKA U/I ACTIVITY, STORAGE AREA [REDACTED]					5040N 07903E	UR

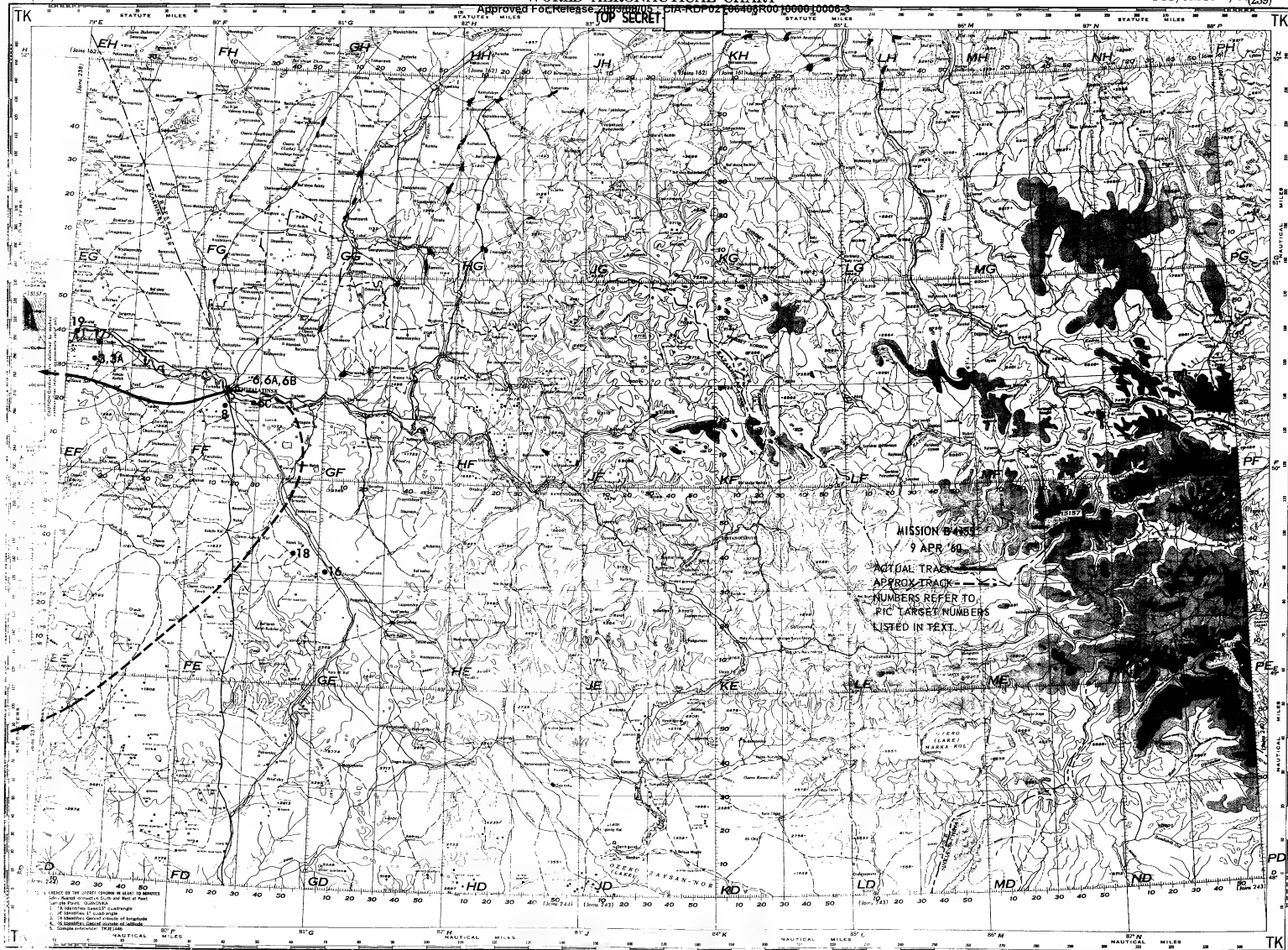
(239) LAKE MARKA-KOL'

WORLD AERONAUTICAL CHART

PIC/JMCI-1/6Q(239)

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LAKE MARKA-KOL' (239)
CHINA-MONGOLIA-U.S.S.R.

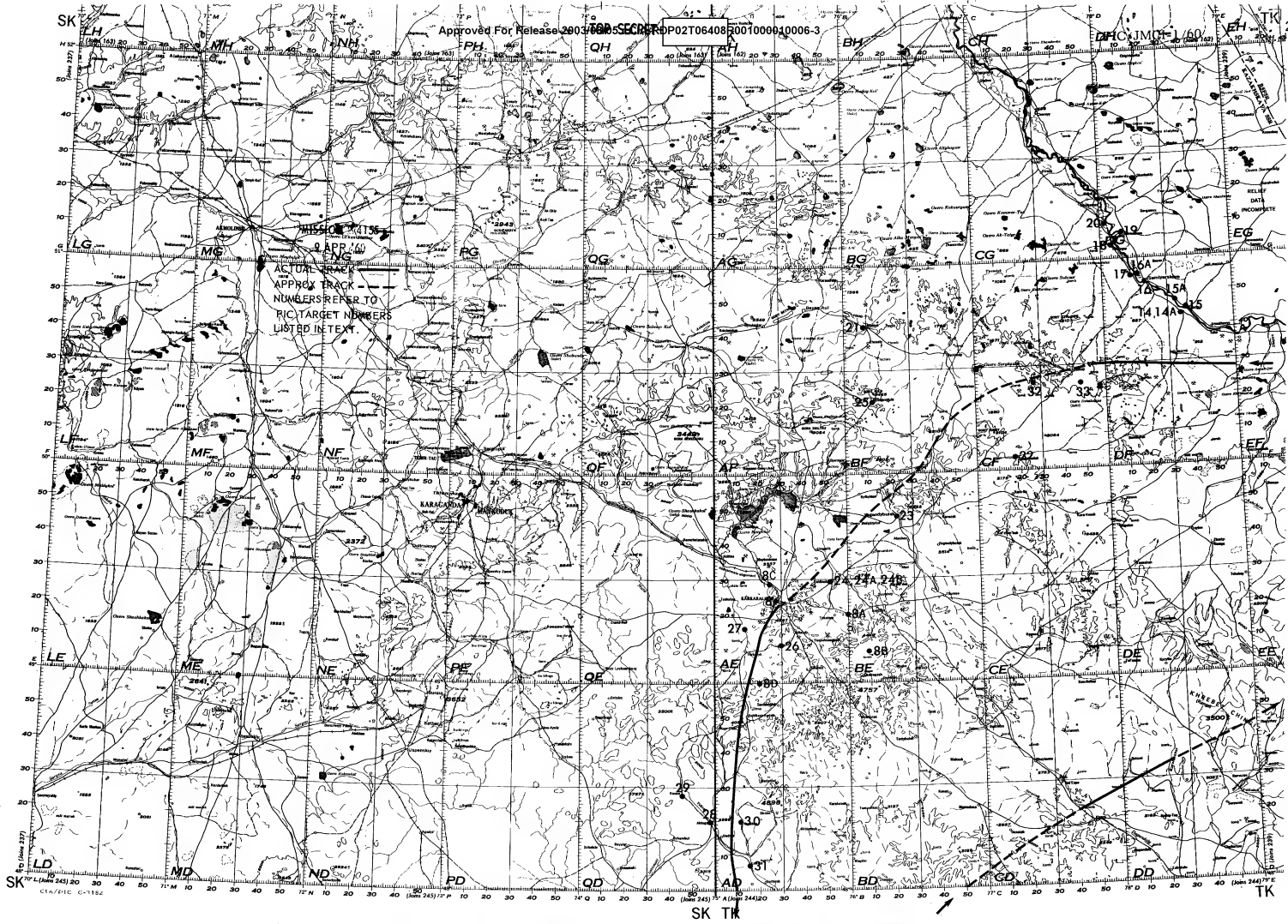
1. PIC TARGET NO.	2. NAME OF INSTALLATION 3. DESCRIPTION & BE NUMBER 4. EXPOSURE NOS. & GRID REFERENCE	5. CAMERA POSITION	6. TOTAL EXP.	7. CLOUD COVER	8. SUBJECT CODE	9. COORDINATES	10. COUNTRY
238-014	ORDZHONIKIDZE URBAN AREA, SUPPORT FACILITIES FOR SEMIPALATINSK PROVING GROUND [REDACTED] [REDACTED]					5044N 07837E	UR 25X1
238-014-A	ORDZHONIKIDZE A/F 5 CAB [REDACTED] [REDACTED]					5044N 07837E	UR
238-015	GRACHEVSKIY URBAN AREA [REDACTED]					5045N 07839E	UR
238-015-A	GRACHEVSKIY INSTRUMENTATION STA. 5 NM NNW GRACHEVSKIY. 1 POSS. RADOME AND 2 OUTLIERS [REDACTED]					5047N 07832E	UR
238-016	SEMIYARSKOYE URBAN AREA [REDACTED] [REDACTED]					5053N 07820E	UR
238-017	MAYSKOYE URBAN AREA [REDACTED]					5053N 07816E	UR
238-016-A	SEMIYARSKOYE STORAGE AREA 5NM NNW SEMIYARSKOYE. 2 LONG BLDGS IN SECURED AREA [REDACTED]					5058N 07813E	UR
238-018	TIKTORGAY URBAN AREA [REDACTED]					5104N 07808E	UR
238-019	KRIVINSKOYE URBAN AREA [REDACTED]					5107N 07812E	UR
238-020	ZHANATURMYS URBAN AREA [REDACTED]					5110N 07802E	UR 25X1
238-033	[REDACTED]						
238-032	UTEBAY INSTRUMENTATION STA. 14NM WSW UTEBAY [REDACTED]					5025N 07725E	UR
238-021	MADANI URBAN AREA [REDACTED]					5043N 07610E	UR
238-022	SHOLAKBUTAK URBAN AREA [REDACTED]					5004N 07718E	UR
238-023	YEGENDYBULAK URBAN AREA [REDACTED] [REDACTED]					4948N 07623E	UR

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1. PIC TARGET NO.	2. NAME OF INSTALLATION 3. DESCRIPTION & BE NUMBER 4. EXPOSURE NOS. & GRID REFERENCE	5. CAMERA POSITION	6. TOTAL EXP.	7. CLOUD COVER	8. SUBJECT CODE	9. COORDINATES	10. COUNTRY
238-024 25X1	TALDINSKIY URBAN AREA [REDACTED]					4929N 07553E	UR
238-024-A 25X1	TALDINSKIY MINING AND MILLING ACTIVITY [REDACTED]					4929N 07553E	UR
238-024-B 25X1	TALDINSKIY COMMUNICATION STA. [REDACTED]					4929N 07553E	UR
238-008 25X1	KARKARALINSK INSTRUMENTATION STA. WITH 2 TOKEN TYPE RADARS, 2 INSTR. BLDGS, SECURED SUPPORT AREA [REDACTED]					4924N 07528E	UR
238-025 25X1	DZHAMBULA URBAN AREA [REDACTED]					5021N 07614E	UR
238-008-A 25X1	KARKARALINSK STORAGE AREA 21 NM ESE KARKARALINSK. 1 LONG BLDG IN SECURED AREA [REDACTED]					4920N 07600E	UR
238-008-B 25X1	KARKARALINSK U/I AREA 25 NM SE KARKARALINSK. SECURED AREA AND U/I BLDG AREA [REDACTED]					4910N 07610E	UR
238-008-C 25X1	KARKARALINSK STORAGE AREA 5 NM NNE KARKARALINSK. 2 LONG BLDG. SECURED OPEN STORAGE [REDACTED]					4929N 07525E	UR
238-026 25X1	BIDAIK MINING ACTIVITY [REDACTED]					4911N 07530E	UR
238-027 25X1	SOVET URBAN AREA [REDACTED]					4916N 07512E	UR
238-008-D 25X1	KARKARALINSK MINING ACTIVITY 25 NM S KARKARALINSK [REDACTED]					4900N 07520E	UR
238-028 25X1 25X1	AKTOGAY URBAN AREA [REDACTED] [REDACTED]					4819N 07458E	UR
238-029 25X1	KIROVA URBAN AREA [REDACTED]					4828N 07445E	UR
238-030 25X1	KOSABAY URBAN AREA [REDACTED]					4820N 07512E	UR
238-031 25X1	LENINA URBAN AREA [REDACTED]					4807N 07516E	UR

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WORLD AERONAUTICAL CHART

NURA RIVER (238)
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1. PIC TARGET NO.	2. NAME OF INSTALLATION 3. DESCRIPTION & BE NUMBER 4. EXPOSURE NOS. & GRID REFERENCE	5. CAMERA POSITION	6. TOTAL EXP.	7. CLOUD COVER	8. SUBJECT CODE	9. COORDINATES	10. COUNTRY
246-006	TYURA TAM GUIDED MISSILE LAUNCH AREAS, NEW LAUNCH AREA U/C 2 NM E OF LAUNCH AREA B. CONSTRUCTION ACTIVITY CONTINUES AT SUPPORT FACILITY FOR LAUNCH AREA B. 				7	4555N 06318E	UR

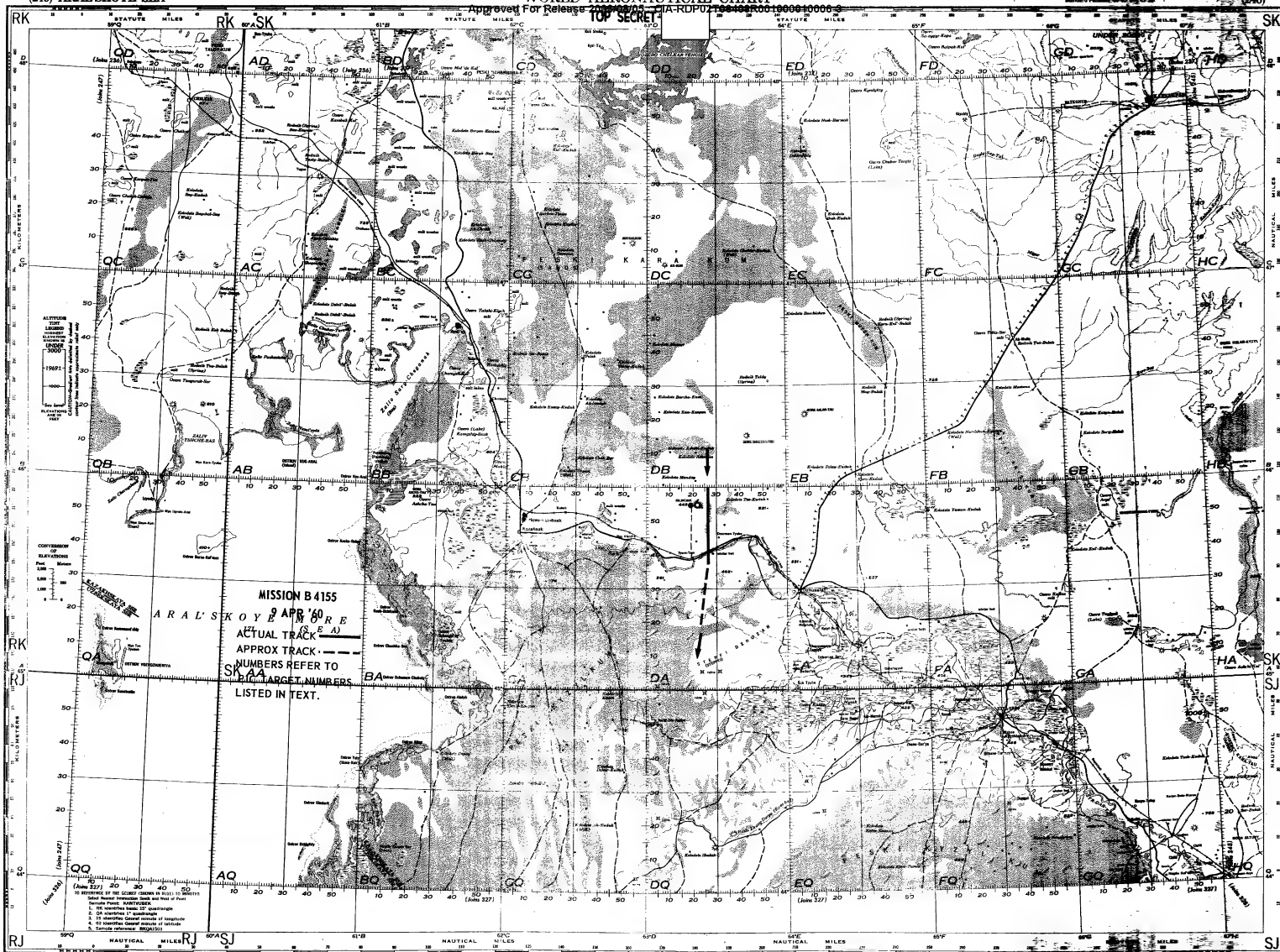
(246) ARAL/SKOYE SEA

WORLD AERONAUTICAL CHART

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(246) CIA/PIC G-3180

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ARAL/SKOYE SEA (246)

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1. PIC TARGET NO.	2. NAME OF INSTALLATION 3. DESCRIPTION & BE NUMBER 4. EXPOSURE NOS. & GRID REFERENCE	5. CAMERA POSITION	6. TOTAL EXP.	7. CLOUD COVER	8. SUBJECT CODE	9. COORDINATES	10. COUNTRY
337-011 X1 X1	BAYRAM-ALI MILITARY BARRACKS & TRAINING AREA [REDACTED] [REDACTED]					3737N 06210E	25X
337-006 X1 X1	MARY URBAN AREA [REDACTED] [REDACTED]					3736N 06150E	UR
337-006-D X1	MARY SPECIAL WEAPONS STORAGE [REDACTED]					3735N 06145E	UR
337-006-B X1 X1	MARY A/F 1 CRATE, 5 CAB, 7 U/I LIAISON, 8 HOUND [REDACTED] [REDACTED]					3736N 06148E	UR
337-006-A X1 X1	MARY NE A/F 33 FAGOT/FRESCO [REDACTED] [REDACTED]					3737N 06154E	UR
337-006-C X1	MARY N. A/F 72 FAGOT/FRESCO, 1 CREEK [REDACTED]					3739N 06149E	UR

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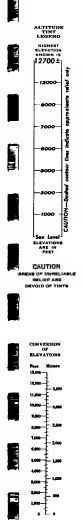


Figure 1: Schematic representation of the 1000 Genomes Project. The figure shows four horizontal tracks representing different populations: European, African, East Asian, and South Asian. Each track contains a series of horizontal bars representing genomic regions. The top track is labeled 'EUROPEAN' and the bottom track is labeled 'SOUTH ASIAN'. The middle two tracks are labeled 'AFRICAN' and 'EAST ASIAN'. The tracks are connected by vertical lines, indicating the same genomic region across populations. The top track also includes a scale from 0 to 1000, representing the number of individuals in the population.

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MISSILES

SARY SHAGAN MISSILE/ELECTRONICS	245-002-1
SARY SHAGAN MISSILE/ELECTRONICS	245-002-2
TYURA TAM	246-006

STORAGE FACILITIES, GENERAL

CHEREMUSHKA	239-019
KARKARALINSK	238-008-A
KARKARALINSK	238-008-C
KOUNRADSKIY	244-006-B
SEMIYARSKOYE	238-016-A
STALINO	328-038-A

TRANSPORTATION

KIIK	245-025
RAILROAD BRIDGE	328-037-D
RAILROAD BRIDGE	328-040
ROAD BRIDGE	328-037-C

URBAN AREAS

AKTOGAY	238-028
BALKHASH	244-004
BOLSHOY DZHEZKAZGAN	245-023
CHAGAN	239-017
CHARSKIY	239-016
DZHAMBULA	238-025
DZHEZKAZGAN	245-001
GRACHEVSKIY	238-015
GUL-SHAD	245-020
KIROVA	238-029
KOSABAY	238-030
KOUNRADSKIY	244-006
KRIVINSKOYE	238-019
LENINA	238-031
MADANI	238-021
MARY	337-006
MAYSKOYE	238-017
MOINTY	245-021
MYN ARAL	245-018
ORDZHONIKIDZE	238-014
PAYTOK	328-036
SEMIPALATINSK	239-006
SEMIYARSKOYE	238-016
SHOLAKBUTAK	238-022
SOVET	238-027
STALINO	328-038
TALDINSKIY	238-024
TIKTORGAY	238-018
UCH-KURGAN	328-037
YEGENDYBULAK	238-023
ZHANATURMYS	238-020

MISCELLANEOUS

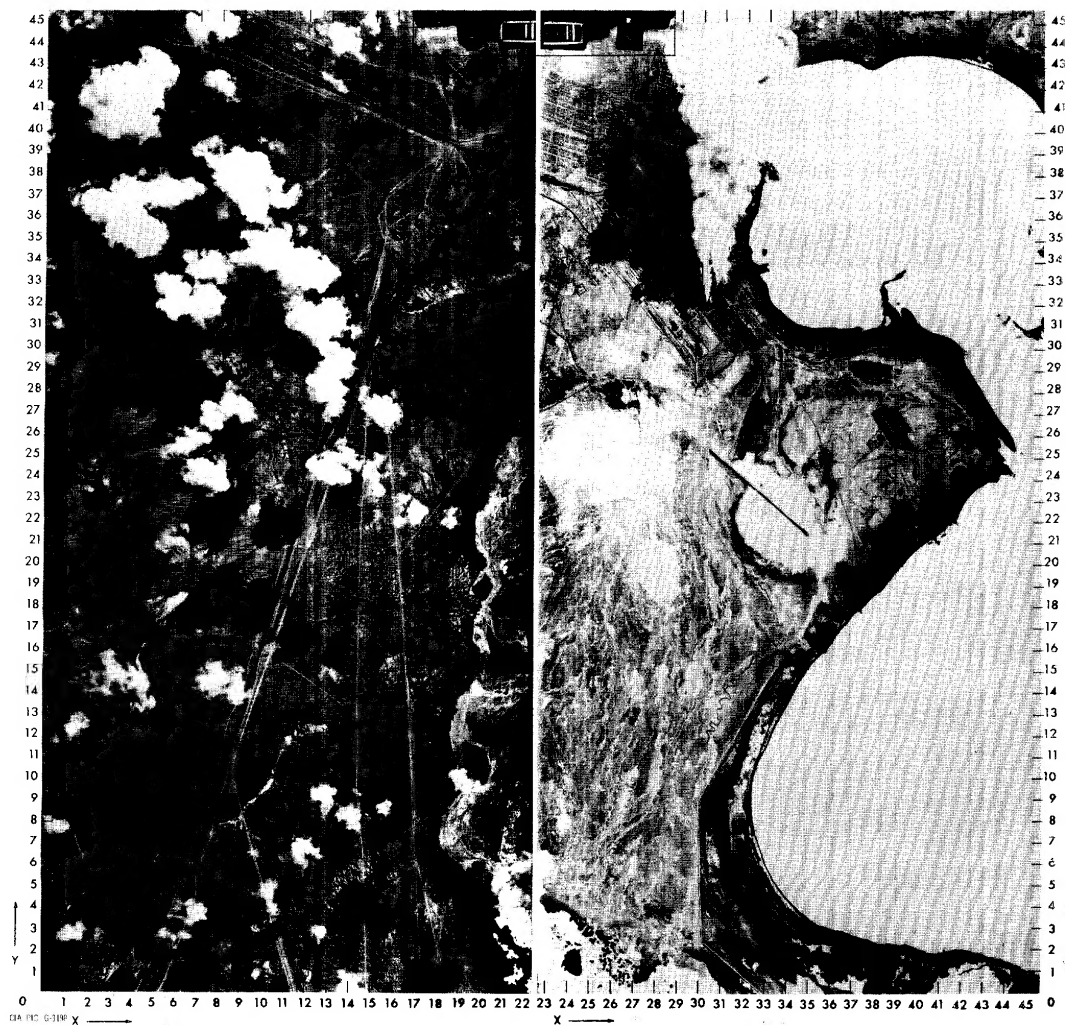
KARKARALINSK	238-008-B
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TOP SECRET

PIC/JMCI-1/60

25X1

APPENDIX



EXAMPLE OF TARGET LOCATION BY UNIVERSAL REFERENCE GRID

This grid is based on the metric system and is oriented on the photography as shown. Ticks are drawn for every centimeter. Locations are read to the nearest centimeter and, if needed, to tenths of a centimeter. The grid reference for PIC Target No. 245-004-B contained in the square above would read X29Y33.

TOP SECRET

25X1

TOP SECRET

Approved For Release 2003/08/05 : CIA-RDP02T06408R001000010006-3

SECRET

TOP SECRET

Approved For Release 2003/08/05 : CIA-RDP02T06408R001000010006-3